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14 Analytical tools for the management of faster-better-cheaper space missions

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**20 Controlled Markov chains with discounted risk-sensitive criteria:
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31 DC to high-frequency HBT-model parameter evaluation using impedance block conditioned optimization*Samelis, A.; Pavlidis, D.;*

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Basili, V.R.; Boehm, B.;

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Yon-Chun Chou; Chuan-Shun Wu;

Semiconductor Manufacturing, IEEE Transactions on , Volume: 15 Issue: 4 , Nov

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Osman Balci, Robert G. Sargent

April 1981

Communications of the ACM, Volume 24 Issue 4

Full text available:  pdf(604.84 KB)

Additional Information: full citation, references, citings, index terms

Keywords: Hotelling's two-sample T2 test, cost-risk analysis, simulation, valid

2 Competitive solutions for online financial problems

Ran El-Yaniv

March 1998

ACM Computing Surveys (CSUR), Volume 30 Issue 1

Full text available:  pdf(331.62 KB)

Additional Information: full citation, abstract, reference

This article surveys results concerning online algorithms for solving problems other assets. In particular, the survey focuses on search, replacement, and po

3 Discrete-event simulation optimization using ranking, selection, and multiple comparisons

James R. Swisher, Sheldon H. Jacobson, Enver Yücesan

April 2003 ACM Transactions on Modeling and Computer Simulation (TOMACS),

Full text available:  pdf(187.81 KB)

Additional Information: full citation, abstract, references

An important use for discrete-event simulation models lies in comparing and without incurring any physical costs. This article presents a survey of the literature statistical methods for selecting the best design from among a finite set of k and multiple comparison procedures (MCPs). A comprehensive survey of each of recent unified R&S- ...


Keywords: Simulation optimization, multiple comparisons, ranking and selection

4 Convex separable optimization is not much harder than linear optimization

D. S. Hochbaum, J. George Shanthikumar

October 1990

Journal of the ACM (JACM), Volume 37 Issue 4

Full text available:  pdf(1.43 MB)


Additional Information: full citation, abstract, references, citations

The polynomiality of nonlinear separable convex (concave) optimization problems with "subdeterminants, and the polynomiality of such integer version of such problems is proven. This paper presents a general procedure that solves linear programming problems. The conversion is polynomially bounded subdeterminant ...

5 Industry track papers: Exploiting response models: optimizing cross-sell and up-sell

Andrew Storey, Marc-david Cohen

July 2002 Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery in data mining

Full text available:  pdf(1.56 MB)

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The banking industry regularly mounts campaigns to improve customer value customers. In recent years this approach has gained significant momentum because of customer data and the improved analysis capabilities in data mining. Typically, response models are used to estimate the probability of a customer purchasing an additional product. Even with these ...


Keywords: assignment problems, constrained optimization, cross-selling, data response models, up-selling

6 Sequential allocations that reduce risk for multiple comparisons


Stephen E. Chick, Koichiro Inoue


December 1998 Proceedings of the 30th conference on Winter simulation

Full text available:  pdf(116.47 KB) Additional Information: full citation, references, citations, index terms



- 7 **Advanced tutorials: Simulation optimization: a survey of simulation optimization**
James R. Swisher, Paul D. Hyden, Sheldon H. Jacobson, Lee W. Schruben
December 2000 Proceedings of the 32nd conference on Winter simulation
Full text available:  pdf(233.66 KB) Additional Information: full citation, abstract, ref


Discrete-event simulation optimization is a problem of significant interest to provide information about an actual (or yet to be designed) system that can be modeled. This paper presents a brief survey of the literature on discrete-event simulation optimization (to the present). Swisher et al. (2000) provides a more comprehensive review of the literature. (1989) covers the literature ...

- 8 **Force allocation through constrained optimization of stochastic response surfaces**
R. Garrison Harvey, Kenneth W. Bauer, Joseph R. Litko
December 1992 Proceedings of the 24th conference on Winter simulation
Full text available:  pdf(724.22 KB) Additional Information: full citation, references, index terms

- 9 **MANAGE—an interactive simulation model for evaluating the effects of organizational changes on organization performance**
Michael D. Sherman
December 1981 Proceedings of the 13th conference on Winter simulation - Volume 1
Full text available:  pdf(951.78 KB) Additional Information: full citation, abstract, references

This paper reports on progress to date in developing a computerized simulation model for the management structure of a firm. This model called MANAGE, offers a framework in which a company can be simulated and assessed under a variety of structural configurations and behavioral parameters that impact upon successful communication within the organization. The general framework of the model ...

- 10 **Computing curricula 2001**
September 2001 Journal on Educational Resources in Computing (JERIC)
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- 11 **An application of simulation for studying the multi-national capital budgeting problem**
H. A. DiGiulio, R. V. Oakford
December 1978 Proceedings of the 10th conference on Winter simulation - Volume 1
Full text available:  pdf(651.93 KB) Additional Information: full citation, abstract, reference

Multi National Corporations are continually faced with the problem of selecting optimal capital budget constraints with the objective of maximizing the value of the firm at a given time. Benefits are realized and therefore the value of the firm in the future is uncertain. This paper addresses the problem of selecting an appropriate measure of worth for evaluating capital budgeting decisions. The appropriate decision procedure ...

12 Analysis methodology I: Low cost response surface methods for and from s

Theodore Allen, Liyang Yu

December 2000

Proceedings of the 32nd conference on Winter simulation

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We propose "low cost response surface methods" (LCRSM) that typically require response surface methods based on central composite and Box Behnken design errors under realistic assumptions. In addition, the LCRSM methods have unexpected savings compared with alternatives with comparable numbers of run computer-generated designs based ...

13 Mariposa: a wide-area distributed database system

Michael Stonebraker, Paul M. Aoki, Witold Litwin, Avi Pfeffer, Adam Sah, Jeff Sid

January 1996 The VLDB Journal — The International Journal on Very Large

Full text available:  pdf(172.75 KB)

Additional Information: full citation, abstract, citi

The requirements of wide-area distributed database systems differ dramatically from traditional database systems. In a wide-area network (WAN) configuration, individual sites usually have different access and charging algorithms, install site-specific data type extensions, and service remote requests. Typical of the last point are production transactions during normal business hours ...

Keywords: Autonomy, Databases, Distributed systems, Economic site, Name s

14 Advanced tutorials: Optimization and system selection: simulation/optimiza

Jay April, Fred Glover, James Kelly, Manuel Laguna

December 2001

Proceedings of the 33rd conference on Winter simulation

Full text available:  pdf(217.39 KB)

Additional Information: full citation, abstract,

This tutorial will focus on several new real-world applications that have been solved using optimization methods, including Tabu Search, Scatter Search, Mixed Integer Programming simulation. Applications include project portfolio optimization and customer re

15 The economics of information security investment

Lawrence A. Gordon, Martin P. Loeb

November 2002

ACM Transactions on Information and System Security (TISSEC)

Full text available:  pdf(461.31 KB)

Additional Information: full citation, abstract, references, c

This article presents an economic model that determines the optimal amount of information security investment. The model takes into account the vulnerability of the information should such a breach occur. It is shown that for a given potential loss, a firm's optimal investments on information sets with the highest vulnerability. Since extreme vulnerabilities are inordinately expensive to protect, a firm ...

Keywords: Optimal security investment

16 Software economics: a roadmap

Barry W. Boehm, Kevin J. Sullivan

May 2000 Proceedings of the conference on The future of Software engineering

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17 Session 3A: markets and auctions II: An average-case budget-non-negativ

Yuko Sakurai, Makoto Yokoo

July 2002 Proceedings of the first international joint conference on Autonomous a

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We develop a new strategy-proof double auction protocol characterized as ave well-known that there is no strategy-proof double auction protocol that satisfi and budget-balance simultaneously. The existing approach is to give up Paret enforcing budget-balance or budget-positive as a hard constraint. We propose budget-non negative condition. Al ...

Keywords: double auction, electronic commerce, mechanism design

18 Computing the distribution function of a conditional expectation via monte c

Shing-Hoi Lee, Peter W. Glynn

July 2003 ACM Transactions on Modeling and Computer Simulation (TOMACS),

Full text available:  pdf(212.38 KB) Additional Information: full citation, abstract, referen

We examine different ways of numerically computing the distribution function conditioning element takes values in a finite or countably infinite outcome sp the distribution function itself are computed via Monte Carlo simulation. Given the quality of the estimator is gauged by the inverse of its mean square error budget allocated to estima ...

Keywords: Probability algorithms, conditional expectation, distribution functio

19 New advances for wedding optimization and simulation

Fred Glover, James P. Kelly, Manuel Laguna

December 1999 Proceedings of the 31st conference on Winter simulation: Simulati

Full text available:  pdf(110.11 KB) Additional Information: full citation, references, citin

20 Special issue on ICML: Policy search using paired comparisons

Malcolm J. A. Strens, Andrew W. Moore

March 2003

The Journal of Machine Learning Research, Volume 3

Full text available:  pdf(323.16 KB)

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Direct policy search is a practical way to solve reinforcement learning (RL) pr action spaces. The goal becomes finding policy parameters that maximize a n method converts this stochastic optimization problem into a deterministic one random number sequences for comparing policies (Ng and Jordan, 2000). We comparison methods, using the mountain car probl ...

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21 Truth revelation in approximately efficient combinatorial auctions

Daniel Lehmann, Liadan Ita O'allaghan, Yoav Shoham

September 2002

Journal of the ACM (JACM), Volume 49 Issue 5

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Some important classical mechanisms considered in Microeconomics and Gam optimization problem. This is true of mechanisms for combinatorial auctions, practical importance, and in particular of the gold standard for combinatorial a (GVA). Traditional analysis of these mechanisms---in particular, their truth re optimization problems are solved ...

Keywords: Combinatorial auctions, computational complexity, mechanism des

22 Pricing computer services: queueing effects

Haim Mendelson

March 1985

Communications of the ACM, Volume 28 Issue 3

Full text available: pdf(1.20 MB)

Additional Information: full citation, abstract, references, citin

This article studies the effects of queueing delays, and users' related costs, on computing resources. It offers a methodology for setting price, utilization, and users' time, and it examines the implications of alternative control structures, assigned to the data processing manager.

23 On targeting Markov segments

Moses Charikar, Ravi Kumar, Prabhakar Raghavan, Sridhar Rajagopalan, Andrew May 1999 Proceedings of the thirty-first annual ACM symposium on Theory of com

Full text available:  pdf(772.50 KB)

Additional Information: full citation, references, citings, index terms

24 An application of optimization-by-simulation to discrete variable systems

Young H. Lee, Farhad Azadivar

December 1985

Proceedings of the 17th conference on Winter simulation

Full text available:  pdf(462.72 KB)

Additional Information: full citation, abstract, ref

An algorithm is being developed for optimization of discrete variable stochastic simulation. The algorithm is basically a complex type search method that integrates capabilities built in the procedure allows it to take into account the stochastic model and arrive at a reasonable solution with a certain level of confidence. The results obtained from this procedure ...

25 Optimizing the selection of VV&A activities: a risk/benefit approach

Paul R. Muessig, Dennis R. Laack, John W. Wroblewski

December 1997 Proceedings of the 29th conference on Winter simulation

Full text available:  pdf(706.44 KB)

Additional Information: full citation, citings, index terms

26 Methodology for allocating resources for data quality enhancement

Donald P. Ballou, Giri Kumar. Tayi

March 1989

Communications of the ACM, Volume 32 Issue 3

Full text available:  pdf(982.91 KB)

Additional Information: full citation, abstract, references, cit

The issue of effective use of resources committed to data integrity maintenance parameter estimates that are iteratively refined to partition available resource

27 An efficient sequential quadratic programming formulation of optimal wire s routing

Paul B. Morton, Wayne Dai

April 1999

Proceedings of the 1999 international symposium on Physical desi

Full text available:  pdf(857.65 KB)

Additional Information: full citation, references, citin

28 Inter disciplinary approaches to the design of dependable computer system software engineering through constraints identification, solution space optim

Denis Besnard, Anthony T. Lawrie

March 2002

Proceedings of the 2002 ACM symposium on Applied computin

Full text available:  pdf(714.94 KB)

Additional Information: full citation, abstract, refere

Design is a complex activity that can be analysed from a wide variety of persp individual problem solving process, taking into account psychological argumen involved in the design process, namely the constraints identification, the optim process. We highlight a three-dimensional framework of how the constraints i which, in turn, determ ...

Keywords: cognitive psychology, design faults, human-error, industrial design

29 Compilers 2: Hybrid analysis: static & dynamic memory reference analysis

Silvius Rus, Lawrence Rauchwerger, Jay Hoeflinger

June 2002

Proceedings of the 16th international conference on Supercomput

Full text available:  pdf(349.43 KB)

Additional Information: full citation, abstract, reference

We present a novel Hybrid Analysis technology which can efficiently and seam analysis of memory references into a single framework that is capable of perf can generate necessary information for most associated memory related optim parallelization by extracting run-time assertions from any loop and generating from a low cost sca ...

Keywords: hybrid analysis, inter-procedural analysis, run-time analysis, run-t

30 A survey of ranking, selection, and multiple comparison procedures for disc

James R. Swisher, Sheldon H. Jacobson

December 1999

Proceedings of the 31st conference on Winter simulation: Simulati

Full text available:  pdf(123.44 KB)

Additional Information: full citation, references

31 Novel design methodologies and signal integrity: Hybrid hierarchical timing performance and low power DSP

Kaijian Shi, Graig Godwin

June 2003

Proceedings of the 40th conference on Design automation

Full text available:  pdf(153.66 KB)

Additional Information: full citation, abstract, refere

A hybrid hierarchical timing closure methodology has been developed to comb hierarchical timing closure method and flat design based logic-physical combi gate, high performance and ultra-low power DSP which has been used in a nu and the implementation details of the methodology are provided.

Keywords: DSP, chip integration, methodology, placement optimization, timin

32 Simulation systems for logistics support planning

Donald F. Blumberg

December 1969

Proceedings of the third conference on Applications of simu

Full text available:  pdf(664.20 KB)



Additional Information: full citation, abstract, referen

Many organizations now operate, or are planning the operation of complex log that defy analysis by any of the existing analytical techniques and inventory m characterized by having a mix of high-value reparable parts with relatively low complex support systems are generally composed of several locations where t the same. The given problem is to ...

33 EPIC compilation: Optimizations to prevent cache penalties for the Intel® It

Jean-Francois Collard, Daniel Lavery

March 2003 Proceedings of the international symposium on Code generation and o runtime optimization

Full text available:  pdf(1.28 MB)  Publisher Site

Additional Information: full

This paper describes scheduling optimizations in the Intel® Itanium® compile micro-architectural effects on the Itanium 2 processor. This paper does not tr penalties, which probably all processors have in one form or another, even in make use of sophisticated methods for disambiguation of memory references, improvement obt ...

34 IS '97: model curriculum and guidelines for undergraduate degree program

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert

December 1997 ACM SIGMIS Database , Guidelines for undergraduate degree prog for undergraduate degree programs in information systems, Volum

Full text available:  pdf(7.24 MB)

Additional Information: full citati

35 Combinatorial auctions for supply chain formation


William E. Walsh, Michael P. Wellman, Fredrik Ygge

October 2000 Proceedings of the 2nd ACM conference on Electronic commerce

Full text available:  pdf(4.36 MB) Additional Information: full citation, references, citings, index terms

**36 Curriculum 68: Recommendations for academic programs in computer science
committee on computer science**

William F. Atchison, Samuel D. Conte, John W. Hamblen, Thomas E. Hull, Thom
McCluskey, Silvio O. Navarro, Werner C. Rheinboldt, Earl J. Schweppe, William V
March 1968 Communications of the ACM, Volume 11 Issue 3

Full text available:  pdf(6.63 MB)


Additional Information: full citation, referenc

Keywords: computer science academic programs, computer science bibliograp
science curriculum, computer science education, computer science graduate p
programs

37 Software trustability analysis

W. E. Howden, Yudong Huang

January 1995 ACM Transactions on Software Engineering and Methodology (TOS

Full text available:  pdf(2.04 MB)

Additional Information: full citation, abstract, referen

A measure of software dependability called trustability is described. A program
confident that p is free of faults. Trustability measurement depends on detect
probability that it will detect faults, when there are faults present. Detectabili
conditions under which one testing and analysis method is more effective tha
were ...

Keywords: analysis, dependability, detectability, failure density, statistical, te

38 A self-optimizing embedded microprocessor using a loop table for low pow

Frank Vahid, Ann Gordon-Ross

August 2001 Proceedings of the 2001 international symposium on Low power el

Full text available:  pdf(230.48 KB)

Additional Information: full citation,


Keywords: cores, embedded systems, low-power, parameterized architectures
system-on-a-chip, tuning

39 Social Analyses of Computing: Theoretical Perspectives in Recent Empiric

Rob Kling

January 1980

ACM Computing Surveys (CSUR), Volume 12 Issue 1

Full text available:  pdf(3.98 MB)

Additional Information: full citation, references, citings, index terms

40 Area and performance tradeoffs in floating-point divide and square-root im

Peter Soderquist, Miriam Leeser

September 1996

ACM Computing Surveys (CSUR), Volume 28 Issue 3

Full text available:  pdf(700.72 KB)

Additional Information: full citation, abstract, refere

Floating-point divide and square-root operations are essential to many scienti
required in all computer systems that support the IEEE floating-point standar
provide only weak support for these operations. The latency and throughput o
of floating-point addition and multiplication, and square-root performance is o
case for high-perf ...

Keywords: FPU, SRT, area and performance tradeoffs, division, floating-point,

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41 Quantifying the costs and benefits of architectural decisions

Rick Kazman, Jai Asundi, Mark Klein

July 2001

Proceedings of the 23rd international conference on Software engin

Full text available: pdf(171.03 KB) Publisher Site

Additional Information: full citation, abst

The benefits of a software system are assessable only relative has been developed to serve. In turn, these benefits result from system's functionality and its quality attributes (such as performance quality attributes are, in most cases, dictated by its architecture. I argue in this paper that the software architecture is the crucial trad ...

42 Designing simultaneous simulation experiments

Paul Hyden, Lee Schruben

December 1999

Proceedings of the 31st conference on Winter simulation: Simulati

Full text available: pdf(284.17 KB)

Additional Information: full citation, references, citin

43 Optimal time borrowing analysis and timing budgeting optimization for latch

Shi-Zheng Eric Lin, Chieh Changfan, Yu-Chin Hsu, Fur-Shing Tsai

January 2002 ACM Transactions on Design Automation of Electronic Systems (TO

Full text available:  pdf(185.37 KB)

Additional Information: full citation, abstract, refere

An interesting property of a latch-based design is that the combinational path clock cycle as long as it can "borrow" time from the shorter paths in the subse lot of flexibility in designing circuits, especially high performance ones. Howe timing analysis. Finding the best clock period or determining how much time is difficult especia ...

Keywords: Cycle stealing, latch-based design, static timing analysis, time bor

44 Energy-aware design of embedded memories: A survey of technologies, ar

Luca Benini, Alberto Macii, Massimo Poncino

February 2003 ACM Transactions on Embedded Computing Systems (TECS), V

Full text available:  pdf(288.44 KB)

Additional Information: full citation, abstract, refere


Embedded systems are often designed under stringent energy consumption b battery size. Since memory systems consume a significant amount of energy imperative to balance power consumption and performance in memory system focuses on the trade-off between performance and energy consumption in pro their interconnections. Although memory design is as ...

Keywords: Embedded systems, embedded memories, integration, memories,

45 Cost-benefit methodology for office systems

Peter G. Sassone

July 1987 ACM Transactions on Information Systems (TOIS), Volume 5 Issu

Full text available:  pdf(1.27 MB)

Additional Information: full citation, abstract, references,

The time savings times salary (TSTS) approach is a widely used methodology information systems, yet its theoretical basis is largely unexplored. In this pa model, including five critical assumptions. We find that the model, though som However, we find that the time-saving-times-salary calculation, per se, is imp ...

46 Equilibrium bandwidth and buffer allocations for elastic traffics

Steven H. Low

June 2000 IEEE/ACM Transactions on Networking (TON), Volume 8 Issue 3

Full text available:  pdf(339.27 KB)

Additional Information: full citation, references, citings, inde

Keywords: bandwidth and buffer allocation, elastic traffic, equilibrium allocati

47 Budgeting, simulation and statistical timing: Optimal integer delay budgetin

E. Bozorgzadeh, S. Ghiasi, A. Takahashi, M. Sarrafzadeh

June 2003 Proceedings of the 40th conference on Design automation

Full text available:  pdf(373.56 KB)

Additional Information: full citation, abstract, refere

Delay budget is an excess delay each component of a design can tolerate und budgeting has been widely exploited to improve the design quality. We prese algorithm. Due to numerical instability and discreteness of libraries of compon optimization flow, integer solution for delay budgeting is essential. We prove old open problem in design optimizati ...

48 Computing the distribution function of a conditional expectation via Monte (

Shing-Hoi Lee, Peter W. Glynn

December 1999 Proceedings of the 31st conference on Winter simulation: Simulati

Full text available:  pdf(118.06 KB)

Additional Information: full citation, references, citin

49 Challenges in modeling demand for inventory optimization of slow-moving

Frank Grange

December 1998 Proceedings of the 30th conference on Winter simulation


Full text available:  pdf(69.69 KB)

Additional Information: full citation, references, index terms

50 The impact of information systems on organizations and markets

Vijay Gurbaxani, Seungjin Whang

January 1991 Communications of the ACM, Volume 34 Issue 1

Full text available:  pdf(3.70 MB)

Additional Information: full citation, abstract, references, citin

The adoption of information technology (IT) in organizations has been growin technology has evolved from the automation of structured processes to system introduce change into fundamental business procedures. Indeed, it is believed computers, companies will live by them, shaping strategy and structure to fit While the importance of the rel ...

51 Mining the network value of customers

Pedro Domingos, Matt Richardson

August 2001 Proceedings of the seventh ACM SIGKDD international conference on

Full text available:  pdf(999.05 KB)

Additional Information: full citation, abstract, reference

One of the major applications of data mining is in helping companies determine if the expected profit from a customer is greater than the cost of marketing to a customer is executed. So far, work in this area has considered only the intrinsic profit from sales to her). We propose to model also the customer's *network value* of customers she ...

Keywords: Markov random fields, collaborative filtering, dependency network marketing

52 AkBA: a progressive, anonymous-price combinatorial auction

Peter R. Wurman, Michael P. Wellman

October 2000 Proceedings of the 2nd ACM conference on Electronic commerce


Full text available:  pdf(346.01 KB) Additional Information: full citation, references, citations, index terms

Keywords: combinatorial auctions, equilibrium prices, progressive auctions

53 New directions in traffic measurement and accounting: Focusing on the elephant

Cristian Estan, George Varghese

August 2003 ACM Transactions on Computer Systems (TOCS), Volume 21 I

Full text available:  pdf(1.03 MB)

Additional Information: full citation, abstract, reference

Accurate network traffic measurement is required for accounting, bandwidth planning. These applications see the traffic as a collection of flows they need to measure. Increasing the state, keeping a counter for each flow is too expensive (using SRAM) or state-of-the-art methods (Cisco's sampled NetFlow), which count periodically are resource-intensive. Previous work showed ...

Keywords: Network traffic measurement, identifying large flows, on-line algorithms

54 Session 7A: bidding and bargaining agents II: Strategic sequential bidding

Gerald Tesauro, Jonathan L. Bredin

July 2002 Proceedings of the first international joint conference on Autonomous a

Full text available:  pdf(162.84 KB)

Additional Information: full citation, abstract, reference

We develop a general framework in which real-time Dynamic Programming (D strategies in a broad class of auctions characterized by sequential bidding and states are represented primarily by an agent's holdings, and transition probab history, along the lines of the "belief function" approach of Gjerstad and Dickh combined with a forecast of ...

Keywords: auctions, bidding and bargaining agents, dynamic programming, e simulation

55 A graph-based system for network-vulnerability analysis

Cynthia Phillips, Laura Painton Swiler

January 1998 Proceedings of the 1998 workshop on New security paradigms

Full text available:  pdf(749.39 KB) Additional Information: full citation, references, citings, index terms

Keywords: attack graph, computer security, network vulnerability

56 Wire packing: a strong formulation of crosstalk-aware chip-level track/layer programming solution

Rony Kay, Rob A. Rutenbar

May 2000 Proceedings of the 2000 international symposium on Physical design

Full text available:  pdf(292.95 KB)

Additional Information: full citation, referenc

57 Advanced tutorials: Options pricing: using simulation for option pricing

John M. Charnes

December 2000

Proceedings of the 32nd conference on Winter simulation

Full text available:  pdf(76.67 KB)

Additional Information: full citation, abstract

Monte Carlo simulation is a popular method for pricing financial options and o availability of powerful workstations and recent advances in applying the tool makes simulation accessible to many users who would otherwise avoid progra derivative securities. This paper presents examples of option pricing and varia implementation with Crystal Bal ...

58 XML indexing and compression: Containment join size estimation: models

Wei Wang, Haifeng Jiang, Hongjun Lu, Jeffrey Xu Yu

June 2003 Proceedings of the 2003 ACM SIGMOD international conference on o

Full text available:  pdf(301.92 KB)

Additional Information: full citation, abstract, refere

Recent years witnessed an increasing interest in researches in XML, partly du
de facto standard for data interchange over the internet. A large amount of w
models and query processing techniques. However, few works have addressed
paper, we report our study on one of the challenges in XML query optimizatio
Containment join is well accept ...

59 Strategyproof cost-sharing mechanisms for set cover and facility location g

Nikhil R. Devanur, Milena Mihail, Vijay V. Vazirani

June 2003 Proceedings of the 4th ACM conference on Electronic commerce

Full text available:  pdf(144.51 KB)

Additional Information: full citation, references, index terms

Keywords: cost sharing, facility location, mechanism design, set cover

60 Provably good global buffering by multi-terminal multicommodity flow appr

Feodor F. Dragan, Andrew B. Kahng, Ion Mandoiu, Sudhakar Muddu, Alexander Z

January 2001 Proceedings of the 2001 conference on Asia South Pacific design

Full text available:  pdf(143.82 KB)

Additional Information: full citation, abstract, reference

To implement high-performance global interconnect without impacting the pla
blocks, the use of buffer blocks is becoming increasingly popular in structured
methodologies. Recent works by Cong, Kong and Pan [5] and Tang and Wong
block planning problem. In this paper, we address the problem of how to perf
given an existing buffer block plan. We give ...

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PAT. NO.	Title
1 6,662,357	T Managing information in an integrated development architecture framework
2 6,661,379	T Antenna selection method for a wireless location system
3 6,659,689	T Garment integrated personal flotation device
4 6,658,467	T Provision of informational resources over an electronic network
5 6,650,333	T Multi-pool texture memory management
6 6,646,604	T Automatic synchronous tuning of narrowband receivers of a wireless location system for voice/traffic channel tracking
7 6,640,249	T Presentation services patterns in a netcentric environment
8 6,640,244	T Request batcher in a transaction services patterns environment
9 6,640,238	T Activity component in a presentation services patterns environment
10 6,636,242	T View configurer in a presentation services patterns environment
11 6,631,470	T Block based design methodology
12 6,629,293	T Block based design methodology
13 6,629,081	T Account settlement and financing in an e-commerce environment
14 6,622,291	T Method and apparatus for physical budgeting during RTL floorplanning
15 6,615,253	T Efficient server side data retrieval for execution of client side applications
16 6,615,199	T Abstraction factory in a base services pattern environment
17 6,615,166	T Prioritizing components of a network framework required for implementation of technology
18 6,611,867	T System, method and article of manufacture for implementing a hybrid network

- 19 6,611,726 **T** Method for determining optimal time series forecasting parameters
 - 20 6,606,744 **T** Providing collaborative installation management in a network-based supply chain environment
 - 21 6,606,660 **T** Stream-based communication in a communication services patterns environment
 - 22 6,606,615 **T** Forecasting contest
 - 23 6,603,428 **T** Multiple pass location processing
 - 24 6,601,234 **T** Attribute dictionary in a business logic services environment
 - 25 6,601,192 **T** Assertion component in environment services patterns
 - 26 6,594,800 **T** Block based design methodology
 - 27 6,587,590 **T** Method and system for computing 8.times.8 DCT/IDCT and a VLSI implementation
 - 28 6,584,936 **T** Animal caging and biological storage systems
 - 29 6,578,068 **T** Load balancer in environment services patterns
 - 30 6,574,778 **T** Block based design methodology
 - 31 6,571,738 **T** Animal caging and biological storage systems
 - 32 6,571,282 **T** Block-based communication in a communication services patterns environment
 - 33 6,567,957 **T** Block based design methodology
 - 34 6,567,824 **T** Integrated inventory management system
 - 35 6,563,460 **T** Collision recovery in a wireless location system
 - 36 6,562,943 **T** Peptide epitopes recognized by disease promoting CD4+ T lymphocytes
 - 37 6,550,057 **T** Piecemeal retrieval in an information services patterns environment
 - 38 6,549,949 **T** Fixed format stream in a communication services patterns environment
 - 39 6,539,403 **T** Method and system for facilitating networked information exchange
 - 40 6,539,396 **T** Multi-object identifier system and method for information service pattern environment
 - 41 6,536,037 **T** Identification of redundancies and omissions among components of a web based architecture
 - 42 6,535,603 **T** Local loop telecommunication repeater housings employing thermal collection, transfer and distribution via solid thermal conduction
 - 43 6,529,948 **T** Multi-object fetch component
 - 44 6,529,909 **T** Method for translating an object attribute converter in an information services patterns environment
 - 45 6,519,571 **T** Dynamic customer profile management
 - 46 6,519,465 **T** Modified transmission method for improving accuracy for E-911 calls
 - 47 6,510,223 **T** Local loop telecommunication repeater housings employing thermal collection, transfer and distribution via solid thermal conduction
 - 48 6,502,213 **T** System, method, and article of manufacture for a polymorphic exception handler in environment services patterns
 - 49 6,496,850 **T** Clean-up of orphaned server contexts
 - 50 6,492,944 **T** Internal calibration method for receiver system of a wireless location system
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PAT. NO.	Title
51 6,483,460	T Baseline selection method for use in a wireless location system
52 6,477,795	T Excavator data acquisition and control system and process
53 6,477,665	T System, method, and article of manufacture for environment services patterns in a netcentric environment
54 6,477,580	T Self-described stream in a communication services patterns environment
55 6,477,520	T Adaptive travel purchasing optimization system
56 6,473,794	T System for establishing plan to test components of web based framework by displaying pictorial representation and conveying indicia coded components of existing network framework
57 6,473,084	T Prediction input
58 6,463,290	T Mobile-assisted network based techniques for improving accuracy of wireless location system
59 6,442,748	T System, method and article of manufacture for a persistent state and persistent object separator in an information services patterns environment
60 6,438,594	T Delivering service to a client via a locally addressable interface
61 6,438,573	T Real-time programming method
62 6,434,628	T Common interface for handling exception interface name with additional prefix and suffix for handling exceptions in environment services patterns
63 6,434,568	T Information services patterns in a netcentric environment

- 64 [6,427,132](#) **T** [System, method and article of manufacture for demonstrating E-commerce capabilities via a simulation on a network](#)
- 65 [6,408,263](#) **T** [Management training simulation method and system](#)
- 66 [6,405,364](#) **T** [Building techniques in a development architecture framework](#)
- 67 [6,400,320](#) **T** [Antenna selection method for a wireless location system](#)
- 68 [6,389,379](#) **T** [Converification system and method](#)
- 69 [6,389,015](#) **T** [Method of and system for managing a SONET ring](#)
- 70 [6,388,618](#) **T** [Signal collection system for a wireless location system](#)
- 71 [6,370,573](#) **T** [System, method and article of manufacture for managing an environment of a development architecture framework](#)
- 72 [6,363,411](#) **T** [Intelligent network](#)
- 73 [6,351,235](#) **T** [Method and system for synchronizing receiver systems of a wireless location system](#)
- 74 [6,345,239](#) **T** [Remote demonstration of business capabilities in an e-commerce environment](#)
- 75 [6,341,292](#) **T** [Spreadsheet-based network information exchange with two-part cache](#)
- 76 [6,339,832](#) **T** [Exception response table in environment services patterns](#)
- 77 [6,334,059](#) **T** [Modified transmission method for improving accuracy for e-911 calls](#)
- 78 [6,332,163](#) **T** [Method for providing communication services over a computer network system](#)
- 79 [6,324,647](#) **T** [System, method and article of manufacture for security management in a development architecture framework](#)
- 80 [6,317,604](#) **T** [Centralized database system for a wireless location system](#)
- 81 [6,317,081](#) **T** [Internal calibration method for receiver system of a wireless location system](#)
- 82 [6,308,072](#) **T** [Method and apparatus for controlling a wireless communication system](#)
- 83 [6,292,556](#) **T** [Local loop telecommunication repeater housings employing thermal collection, transfer and distribution via solid thermal conduction](#)
- 84 [6,289,382](#) **T** [System, method and article of manufacture for a globally addressable interface in a communication services patterns environment](#)
- 85 [6,289,334](#) **T** [Apparatus and method for decomposing database queries for database management system including multiprocessor digital data processing system](#)
- 86 [6,285,321](#) **T** [Station based processing method for a wireless location system](#)
- 87 [6,282,531](#) **T** [System for managing applied knowledge and workflow in multiple dimensions and contexts](#)
- 88 [6,281,834](#) **T** [Calibration for wireless location system](#)
- 89 [6,269,467](#) **T** [Block based design methodology](#)
- 90 [6,266,013](#) **T** [Architecture for a signal collection system of a wireless location system](#)
- 91 [6,257,171](#) **T** [Animal caging and biological storage systems](#)
- 92 [6,256,773](#) **T** [System, method and article of manufacture for configuration management in a development architecture framework](#)
- 93 [6,243,497](#) **T** [Apparatus and method for optimizing the rate control in a coding system](#)
- 94 [6,236,955](#) **T** [Management training simulation method and system](#)
- 95 [6,195,922](#) **T** [Excavator data acquisition and control system and process](#)

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PAT. NO.	Title
101 6,097,336	T Method for improving the accuracy of a wireless location system
102 6,092,047	T Apparatus and method of composing a plan of flexible benefits
103 6,091,362	T Bandwidth synthesis for wireless location system
104 6,085,216	T Method and system for efficiently allocating resources for solving computationally hard problems
105 6,078,745	T Method and apparatus for size optimization of storage units
106 6,023,692	T Goal based tutoring system with behavior to control flow of presentation
107 5,994,675	T Semiconductor processing furnace heating control system
108 5,963,939	T Method and apparatus for an incremental editor technology
109 5,954,640	T Nutritional optimization method
110 5,875,437	T System for the operation and management of one or more financial accounts through the use of a digital communication and computation system for exchange, investment and borrowing
111 5,798,939	T System for optimizing power network design reliability
112 5,742,806	T Apparatus and method for decomposing database queries for database management system including multiprocessor digital data processing system
113 5,729,700	T Methods and apparatus for facilitating execution of asset trades based on nonnegative investment risk, using overlapping time periods
114 5,704,142	T Excavator data acquisition and control system and process
115 5,673,252	T Communications protocol for remote data generating stations
116 5,659,985	T Excavator data acquisition and control system and process

- 117 [5,644,727](#) **T** [System for the operation and management of one or more financial accounts through the use of a digital communication and computation system for exchange, investment and borrowing](#)
- 118 [5,633,511](#) **T** [Automatic tone scale adjustment using image activity measures](#)
- 119 [5,615,109](#) **T** [Method of and system for generating feasible, profit maximizing requisition sets](#)
- 120 [5,553,407](#) **T** [Excavator data acquisition and control system and method of use](#)
- 121 [5,541,914](#) **T** [Packet-switched self-routing multistage interconnection network having contention-free fanout, low-loss routing, and fanin buffering to efficiently realize arbitrarily low packet loss](#)
- 122 [5,468,088](#) **T** [Feedback control of groundwater remediation](#)
- 123 [5,243,351](#) **T** [Full aperture image synthesis using rotating strip aperture image measurements](#)
- 124 [5,148,365](#) **T** [Scenario optimization](#)
-

